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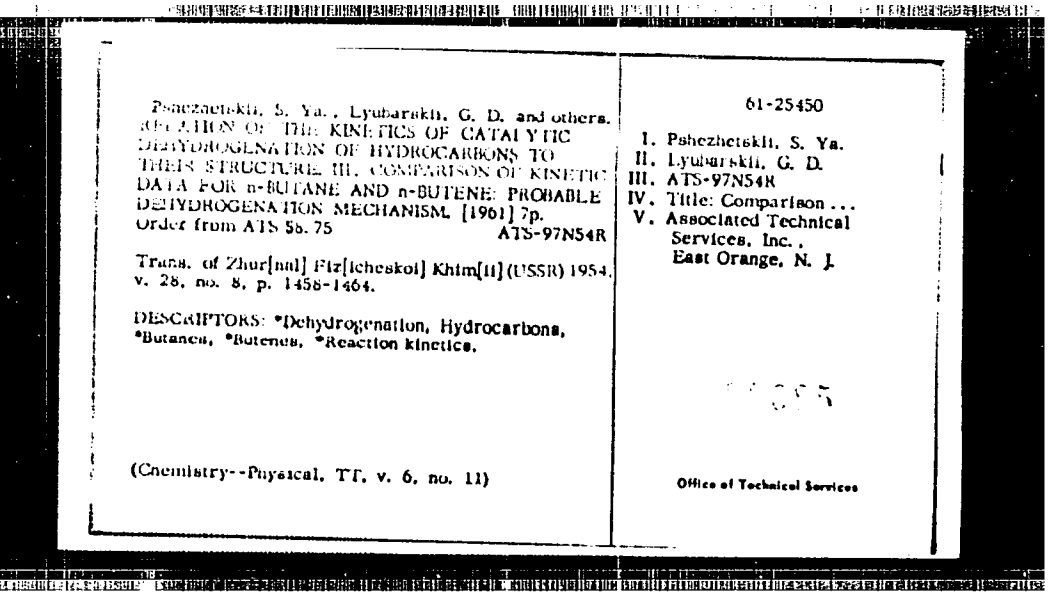

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DESCRIPTORS: *Dehydrogenation, Hydrocarbons, *Butanes, *Butenes, *Reaction kinetics.

(Chemistry--Physical, TT, v. 6, no. 11)

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Sci - Physics
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DESCRIPTORS: *Thermodynamics, Data, Salts, Solubility, *Sulfates, *Carbonates, *Chromates, *Iodates, *Bromates, *Oxalates.

(Chemistry--Physical, TT, v. 11, no. 6)

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Order from ATS $13.35 ATS-16N54R

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DESCRIPTORS: *Gels, *Silicon compounds, Molecular structure.

(Chemistry--Physical, TT, v. 6, no. 8)

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JPRS-L-946-N

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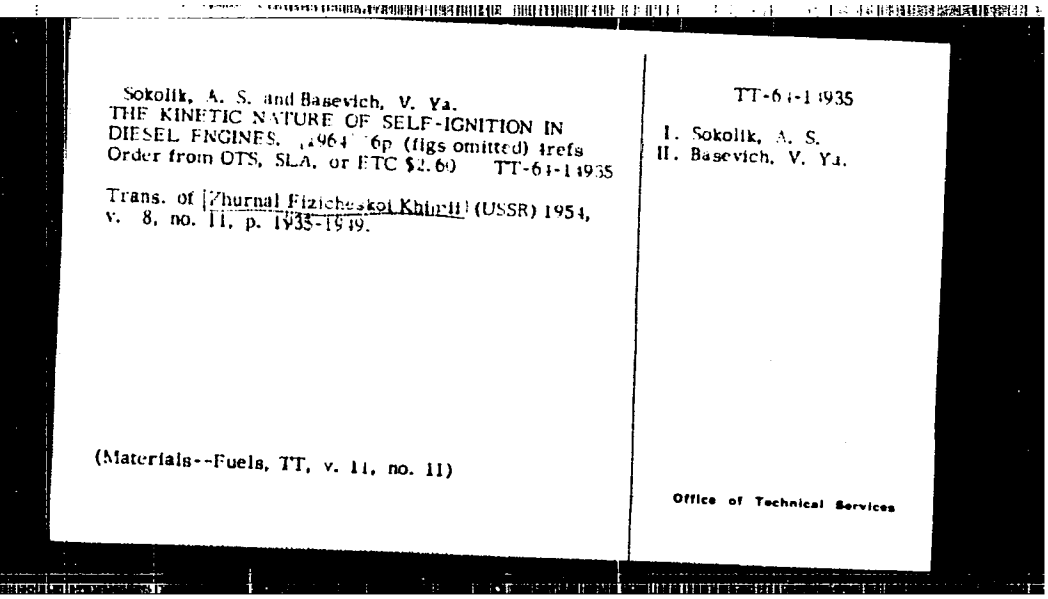

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(Materials--Fuels, TT, v. 11, no. 11)

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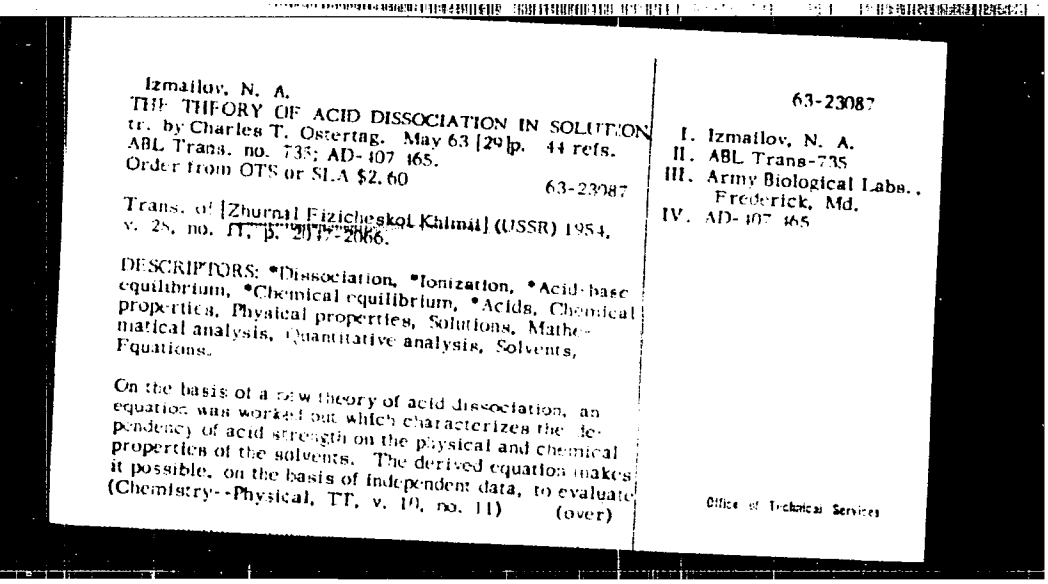

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Order from OTS or SLA $2.60
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DESCRIPTORS: *Dissociation, *Ionization, *Acid-base equilibrium, *Chemical equilibrium, *Acids, Chemical properties, Physical properties, Solutions, Mathematical analysis, Quantitative analysis, Solvents, Equations.

On the basis of a new theory of acid dissociation, an equation was worked out which characterizes the dependency of acid strength on the physical and chemical properties of the solvents. The derived equation makes it possible, on the basis of independent data, to evaluate
(Chemistry--Physical, TT, v. 10, no. 11) (over)

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ABC IB Tr-65

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(Chemistry--Physical, TT, v. 11, no. 11)

TT-64-11936

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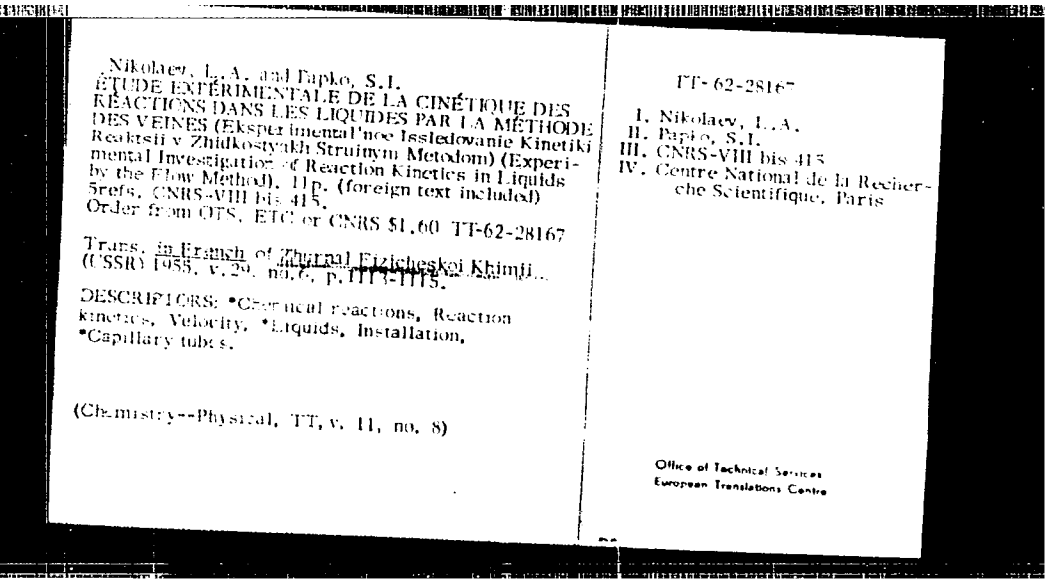

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Order from OTS, ETC or CNRS $1.60 TT-62-28167

Trans. in French of Zhurnal Fizicheskoi Khimii (USSR) 1955, v.29, no.6, p.1113-1115.

DESCRIPTORS: *Chemical reactions, Reaction kinetics, Velocity, *Liquids, Installation, *Capillary tubes.

(Chemistry--Physical, TT, v. 11, no. 8)

TT-62-28167

I. Nikolaev, L.A.
II. Papko, S.I.
III. CNRS-VIII bis 415
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European Translations Centre

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The kinetics of decomposition of potassium bicarbonate in the temperature range 158-214°C have been studied. The rate of the decomposition increases to a maximum and then diminishes to zero. The reaction commences at separate centres, then rapidly spreads over the surface, covering it with solid product in 5-10 min. Increasing the geometrical surface more than 50 times has practically no effect on the reaction rate; this is related to the large internal surface of the crystals. The activation energy of the decomposition of potassium bicarbonate is 15500 cal, which coincides, within the limits of experimental error (Chemistry--Physical, TT, v. 5, no. 7) (over)

61-15386

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